अन्तरिक्ष विभाग पट्टीय वायुमं इलीय अनुसंधान प्रयोगशाला ास्ट बॉक्स न 123. एसबीबू केपस डाक घर तिरुपति-517 502 साइट पोस्ट व ग्राम, गाउंकी-517 112 चिन् जिला, आध्र प्रदेश दूरभाषः + 91-8585 272024, 272020 पैक्स: + 91-8585-272018.21



DEPARTMENT OF INDIA
DEPARTMENT OF SPACE
NATIONAL ATMOSPHERIC RESEARCH LABORA
P.B. No. 123, SVU Campus P.O.
TIRUPATI-517-502
Site P.O. & Vill. Gadanki-517-112
Chittoor Dist., Andhra Pradesh
Phone + 91-8585-272024, 272020
Fax + 91-8585-272018-21

### CERTIFICATE

This is to certify that the following students

भारत सरकार

A SHREYA 4AL15EC001

CHARAN RAJ S 4AL15EC017

DEVIKA H S 4AL15EC019

HARSHITHA N P 4AL15EC030

of B.TECH -Electronics and Communication Engineering studying at ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY have successfully completed their internship from 23<sup>rd</sup> January 2019 to 22<sup>nd</sup> February 2019 at NARL, Gadanki. During their internship they have worked on "Implementation of GNSS-SDR and its application for PPP at AIET campus" under the guidance of Mr. Himanshu S. Sethi, Sci. /Engr. SC and Dr. Nirvikar Dashora, Sci. /Engr. SF with full support of Dr. Dattathreya Gujar, Dean (Planning) & Sr. Professor, AIET.

As the

(Himanshu S. Sethi)

Sci. /Engr. -SC

NARL, Gadanki

(Dr. Nirvikar Dashora)

Sci. /Engr. -SF

NARL, Gadanki

इर्गे. निर्मिकार दशीरा / Dr. Nirvikar Dachora वैद्या/इंजीनिचर 'एसई'/Scientist Engineer (३१' राष्ट्रीय यायुमंडलीय अनुसंधान प्रयोगतान्त Unional Atmospheric Research Enhoustery अन्तरिक विकास (PERANTMENT DE 1888)



Inflow Information Integrity Pvt. Ltd.
Inflow House,
Bengaluru 560038.

Date: 11/2/19

#### CERTIFICATE

This is to certify that Ms. Akshata S, a student of AIET (Electronics & Communication Engineering) has completed internship on Unified Communications & Collaboration & WLAN Technologies at Inflow Information Integrity Bengaluru, from 16-JAN to 30-JAN 2019.

In Acknowledgment of her work & commitment in concluding this internship program this certificate is issued as a confirmation of her training at Bengaluru. She showed his brilliance, exertions and feats in being an unresolved student.

ID NO: 3588



Certificate No 12355





#### ITI LIMITED

Bangalore Plant Dooravaninagar Bangalore-560016

#### **HUMAN RESOURCES - EMPLOYEE DEVELOPMENT CENTRE**

### Certificate

This is to certify that

Mr. Amar Rooli

B.E (Electronics & Communication)

Alva's Institute of Engineering & Technology - Moodbidri

has successfully completed

#### Internship

During the period from 17/01/2019 to 31/01/2019 In the following areas

Telephones Defence Productions, Switching Access Products, Research & Development, Information Technology, Quality Assurance & IOT

Signature of the Trainee Date:31/01/2019

Issuing Authority Dy. Manager HRED

Dy. Manager-HRED (Ram Surat Yaday) II Limited Doorgyani Nagar

www.itiltd-india.com Email: mhred\_bgp@itiltd.co.in



Inflow Information Integrity Pvt. Ltd.
Inflow House,
Bengaluru 560038.

Date: 11/2/19

#### **CERTIFICATE**

This is to certify that Ms. Anusha K, a student of AIET (Electronics & Communication Engineering) has completed internship on Unified Communications & Collaboration & WLAN Technologies at Inflow Information Integrity Bengaluru, from 16-JAN to 30-JAN 2019.

In Acknowledgment of her work & commitment in concluding this internship program this certificate is issued as a confirmation of her training at Bengaluru. She showed has brilliance, exertions and feats in being an unresolved student.

Inflow Information Integrity Pvt. Ltd.
Inflow House. Bangalore-560038.
Internship Reg. No. EC-19205

### MANIPAL INSTITUTE OF TECHNOLOGY

(A constituent unit of MAHE, Manipal)

**25** 

29th Jan. 2019.

#### TO WHOMSOEVER IT MAY CONCERN

This is to certify that the following students from Dept. of Electronics and Communication Engg., Alva's Institute of Engineering and Technology, Mangalore have carried out their internship in the area of Advanced Control Systems in Lab-2, Instrumentation and Control Engineering, Manipal Institute of Technology, MAHE, Manipal from 16<sup>th</sup> January 2019 to 29<sup>th</sup> January 2019.

- 1. Ms.Arpana (USN: 4AL15EC011)
- 2. Ms. Preethika (USN: 4AL16EC408)

During the internship period they worked on the Multivariable Controller Design for MIMO System Based on IAE errors with GA optimization.

I wish them all success it heir future endeavors.

With regards

(Dr.I.Thirunavukkarasu)

Dr. I. THIRUNAVUKKARASU
Associate Professor - Senior Scale
Dept. of I. C. E.
M.I.T., Manipal University
Manipal, Karnataka
www.itarasu.com

MANIPAL-576104

MANIPAL-576104

MANIPAL-576104

MANIPAL-576104





भारत इलेक्ट्रॉनिक्स लिमिटेड

(भारत सरकार का उद्यम, रक्षा मंत्रालय) जालहल्ली पोस्ट, बेंगलूरु - 560 013, भारत

BHARAT ELECTRONICS LIMITED

(A Govt. of India Enterprise, Ministry of Defence) Jalahalli Post, BENGALURU - 560 013, India

फोन / Phone फैक्स / Fax ईमेल / E-mail :

No: 383/HR/CLD/749/2018-19

Date: 07-02-2019

# CERTIFICATE CERTIFICATE

to certify that Ms. student  ${\it BINDU}$  $\mathcal{P}$ ALVAS INSTITUTE OF ENGINEERING & TECHNOLOGY, MOODBIDRI, has undergone Internship in BEL from 09-01-2019 to 07-02-2019 and has undergone Orientation in "EM" SBU

He / She was regular and punctual in his / her attendance and his/her conduct was satisfactory during the period.

व उम प्र (डी एंड ई सिम्युलेम्डर)कृत एवं कारपोरेट आफिस : नागावारां, आउटर रिंग रोड, बेंगलूरु - 560 046, भारत

Sr. DGM (D&E Simulated) Corporate Office: Nagavara, Outer Ring Road, Bengaluru - 560 045, India MARIUNDA CW एम एस बी यू / EM SBU

BHARAT ELECTRONICS LTD.

Bangalore - 13. / ISO 9001 and 14001 प्रमाणित कंपनी / Certified Company

209723 Dy. MANAGER (HR/CLD)



Larsen & Toubro Limited Electrical & Automation

Mysore Campus, KIADB Industrial Area Hebbal - Hootagalli, Mysore - 570 018. INDIA Tel : 91 821 2405000 Fax : 91 821 2405491

www.LNTEBG.com

MYS / KN

24.01.2019

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. CHAITHANYA S. P student of Alva's Institute of Engineering and Technology, Mangalore has completed Internship Training in our organization from 10.01.2019 to 24.01.2019

During this period Ms. CHAITHANYA. S.P has shown keen interest and completed the Training successfully.

We wish her success in all her endeavors.

for LARSEN & TOUBRO LIMITED

K. NAGARAJ ASST GENERAL MANAGER

**ADMINISTRATION & PLANT ENGG** 



## KARMIC DESIGN PRIVATE LIMITED AN ISO 9001-2015 CERTIFIED COMPANY

Ref. No.: KDPL/INTRN/CER/18-19/0070

Date: 17-May-2019

#### CERTIFICATE

This is to certify that Mr. Dheeraj Shetty, (USN 4AL15EC020) of Alva's Institute of Engineering and Technology, Moodbidri has undergone project training entitled "Introduction to Layouts in CMOS Technology" at KARMIC Design Private Limited, 4/505(C&C1), 80 Badagabettu, Rajeev Nagar, Alevoor Road, Manipal, Udupi District, Karnataka - 576 104 under our guidance from 08<sup>th</sup> January 2019 to 06<sup>th</sup> February 2019.

For KARMIC DESIGN PRIVATE LIMITED

Madan Bilagi Director



# ROSSELL TECHSYS DIVISION OF ROSSELL INDIA LTD)



ngalore Office: #71 and #74, 3rd Cross, Export Promotion Industrial Park, Whitefield, Bangalore: 560,066, Tel. +91-80-4619,9401, Fax. +91-80-4619,9400 Email: rosseil@rosseiltechsys.com

01 Feb 2019

#### To Whomsoever It May Concern

This is to certify that Ms Divyashree A K, a student registered for the BE (Electronics & Communication Engineering) program at Alva's Institute of Engineering & Technology, Moodbidri, Dakshina Kannada has successfully completed her Internship on Automated Wiring Test System (AWTS) at Rossell Techsys from 7/01/2019 to 1/02/2019.

During the period of her internship, we found her to be hard-working, meticulous, intelligent and personable.

We wish her the very best as she pursues her BE program at Alva's Institute of Engineering & Technology, Moodbidri, Dakshina Kannada, and in all her future endeavours.

For Rossell Techsys,

(Division of Rossell India Ltd.)

Chandravel S

VP-Engineering & Business Development









### ITI LIMITED

Bangalore Plant Dooravaninagar Bangalore-560016

## HUMAN RESOURCES - EMPLOYEE DEVELOPMENT CENTRE

### Certificate

This is to certify that Mr. Gaurav NR

B.E (Electronics & Communication)

Alva's Institute of Engineering & Technology - Moodbidri

has successfully completed

#### Internship

During the period from 17/01/2019 to 31/01/2019

In the following areas

Telephones Defence Productions, Switching Access Products, Research & Development, Information Technology, Quality Assurance & IOT



Jaman W.

Signature of the Trainee Date:31/01/2019 Issuing Authority Dy. Manager HRED

www.itiltd-india.com Email: mbred bgp@itiltd.co.in





# Certificate of Internship

Awarded to

GIRISH H. R.

has successfully completed C Programming, Arm 7, Wireless Technologies, Xbee, Bluetooth, Android, Design and development of home automation system. in SMEClabs

from <u>17 January, 2019</u> to <u>05 February, 2019</u>

05 February, 2019

Date of Issue.



Training Incharge



Address: Kaloor Corporation Complex, Near Private Bus Stand, Kaloor, Kochi - 682017



Head of the Department

### ROSSELL TECHSYS





Bangalore Office # 71 and # 74, 3rd Cross, Export Promotion Industrial Park, Whitefield, Bangalore - 560,066, Tel +91-80-4619,9401, Fax +91-80-4619,9400 Email rossell@rossell@crossell@crossell@crossell@crossell@crossell

01 Feb 2019

#### To Whomsoever It May Concern

This is to certify that Ms Haripriya R, a student registered for the BE (Electronics & Communication Engineering) program at Alva's Institute of Engineering & Technology, Moodbidri, Dakshina Kannada has successfully completed her Internship on Automated Wiring Test System (AWTS) at Rossell Techsys from 7/01/2019 to 1/02/2019.

During the period of her internship, we found her to be hard-working, meticulous, intelligent and personable.

We wish her the very best as she pursues her BE program at Alva's Institute of Engineering & Technology, Moodbidri, Dakshina Kannada, and in all her future endeavours.

Techs

For Rossell Techsys,

(Division of Rossell India Ltd.)

Chandravel S,

VP- Engineering & Business Development





भारत इलेक्ट्रॉनिक्स लिमिटेड

(भारत सरकार का उद्यम, रक्षा मंत्रालय) जालहल्ली पोस्ट, बेंगलूरु - 560 013, भारत

BHARAT ELECTRONICS LIMITED

(A Govt. of India Enterprise, Ministry of Defence)
Jalahalli Post, BENGALURU - 560 013, India

फ़ोन / Phone

फैक्स / Fax

ईमेल / E-mail

No: 383/HR/CLD/750/2018-19

Date: 07-02-2019

# STIRE FOR LEARNING AND DEVELOPMENT. CERTIFICATE

This is to certify that Ms. JEEVITHA K, student of ALVAS INSTITUTE OF ENGINEERING & TECHNOLOGY, MOODBIDRI, has undergone Internship in BEL from 09-01-2019 to 07-02-2019 and has undergone Orientation in "EM" SBU

He / She was regular and punctual in his / her attendance and his/her conduct was satisfactory during the period.

PROJECT GUIDE

व उम्र (डी एड इं सिन्युनंदर)

Sr. DGM (D&E Sमंत्रीकृतात्रवं कारपोरेट आफिस : नागावारा, आउटर रिंग रोड, बेंगलूरु - 560 045, मारत MANSUNDA SWAMT र् एम एम वी यू तहर्टी कि एपेrporate Office : Nagavara, Outer Ring Road, Bengaluru - 560 045, India 209723
BHARAT ELECTRONICS LT सो आई एन / CIN : L32309KA1954GOI000787

Dy. MANAGER (HR/CLC)

Bangalor • 13. आई एस ओ / ISO 9001 and 14001 प्रमाणित कंपनी / Certified Company



### Mahanagar Telephone Nigam Limited

( A Government of India Enterprise )

Centre for Excellence in Telecom Technology & Management Mumbai

[ISO 9001:2015 Certified]



Certified that Mr. Rishabh R. Karotiya
has successfully completed Industrial Training in
Optical Fibre Cables and Systems
through Centre for Excellence in Telecom Technology
and Management from 17/01/2019 to 14/02/2019

Dated at 14/02/2019
Place Mumbai



Deputy General Manager (Training Management)



दूरभाष/Phone: 080-25347710 फैक्स/Fax: : 080-25347717



भारत सरकार, रक्षा पंत्रालय Government of India, Ministry of Defence रजा अनुसंघान एवं विकास संगठन Defence Research and Development Organisation

रक्षा उड्डयानिकी अनुसंधान संस्थापन DEFENCE AVIONICS RESEARCH ESTABLISHMENT पोस्ट बॉबस सं. 9366, सी.बी. टामन नगर, बेंगलूर - 560093 P.B. No. 9366, C. V. Raman Nagar, Bengaluru - 560093

No. DARE/SIEG/AATRU/22/PROJ

Date: 13 Feb 2019

#### CERTIFICATE

This is to certify that Ms Kavyashree M (Univ Reg No. 4AL15EC036) and Ms Gaganashree P (Univ Reg No. 4AL15EC024) student of B.E (Electronics and communication Engineering) from ALVA's Institute of Engineering and Technology, Mangalore have successfully completed their Internship from 21<sup>st</sup> Jan to 15<sup>th</sup> Feb 2019 under my supervision at Defence Avionics Research Establishment, DRDO, Bangalore.

They have fulfilled the tenure successfully with enthusiasm, sincerity and regularity and was good at understanding the concepts.

G. Baranidharan Scientist 'E'

DEFENCE AYONGS RESEARCH ESTABLISHMENT DARE, DRDO, MoD, Goyf, of India C. V. Raman Nager, Bengalury - 549 093 Altair Engineering India Pvt. Ltd.

Prestige Techpark, Marathalli Bengaluru

560103.



Date: 5th feb 19

#### **CERTIFICATE**

This is to certify that Mr. Keerthana I K, a student of Electronics & Communication Engineerin, Alva's Institution of Engineering & Technology has accomplished internship training on Satellite Communication at Bengaluru, from 16-JAN to 30-JAN 2019.

We found his sincere, meticulous and enthusiastic with result oriented. He worked well as a fragment of the team during the tenure. We take this prospect to thank his and wish all the best for future and awarded this certificate.

Reg No. 18 1907 Park

Issued on. \$12 119

Bangalore-560103

\*
Mare: 3" \*\*

Mare: 3"

Dad-M





# Certificate of Internship

Awarded to

**KUMARA SWAMY N. R.** 

has successfully completed C Programming, Arm 7, Wireless Technologies, Xbee, Bluetooth, Android, Design and development of home automation system.

in SMEClabs

from 17 January, 2019 to 05 February, 2019

05 February, 2019

Date of Issue.



Training Incharge



Address: Kaloor Corporation Complex, Near Private Bus Stand, Kaloor, Kochi - 682017



Head of the Department

SIEMENS



Birla Aurora, Level 21, Plot No. 1080, Dr. Annie Besant Road, Worli, Mumbai –

Name Department Satish Dasari Human Resources

Telephone Mobile

+91 (40)67867750 +91 917777 1386 satish.dasari@siemens.com

E-mail Date

06.02.2019

#### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. K. Lakshmi Narasimha from Alva's Institute of Engineering & Technology, Mangalore-574 225, has undertaken his Internship in Electronics & Communications at our Hyderabad office. The duration of his project work was from 09.01.2019 to 29.01.2019.

His work & conduct during the project work was good.

We wish him all the best for a bright and prosperous career.

Yours faithfully, SIEMENS LTD

Satish Dasari Human Resources

Siemens Ltd. Management: Sunii Mathur

Plot No. 4<sup>th</sup> & 5<sup>th</sup> Floors, Lakshminarsaiah Estate, Hyderabad – 500004 India

Tel.: +91 (40) 6786 7750

Registered Office: Birla Aurora, Level 21, Plot No. 1080, Dr. Annie Besant Road, Worli, Mumbai – 400030; Corporate Identity number: L28920MH1957PLC010839; Contact / Email: www.siernens.co.in/contact; Website: www.siernens.co.in.
Sales Offices: Ahmedabad, Bengaluru, Bhopal, Bhubaneswar, Chandigarh, Chennal, Colmbatore, Gurgaon, Hyderabad, Jaipur, Jamshedpur, Kharghar, Kolkata, Lucknow, Kochi, Mumbai, Nagpur, Navi Mumbal, New Delhi, Puducherry, Pune, Vadodara, Visakhapatnam.

CIN: U33125KA1978PTC003336 GST: 29AAECS8483N1ZE

PLOT NO. 66, KEONICS ELECTRONICS CITY, HOSUR ROAD, BANGALORE - 560 100. INDIA

E-mail: info@sysconinstruments.com

February 1, 2019

### TO WHOM SO EVER IT MAY CONCERN

This is to certify that Ms. Likhitha P bearing USN: 4AL15EC040 studying in  $4^{th}$  year Bachelor of Engineering for the academic year from Department of Electronics & Communication, Alva's Institute of Engineering and Technology, Mijar, Moodbidri-574 225 has successfully completed her Internship training at M/s. Syscon Instruments Pvt. Ltd., Bangalore for a period from 13th January 2019 to 01st February 2019.

We wish her every success in life.

for Syscon Instruments Pvt. Ltd

R. Shirland

Vice President



### M. K. SRINIVASAN SYSTEMS PVT. LTD.

INNOVATIVE TECHNOLOGY

IABL Accredited Calibration Lab as per ISO/IEC 17025: 2017 Manufacturing Division

Research & Development Division

Karnataka, India. Ph. : +91 (080) 2344 9185 Fax: +91-080-23341146, E-mail: mkssym@gmail.com

**Testing & Calibration Division** 

# 33, 17th Cross, 12th Main, Malleshwaram, Bengaluru - 560 055

Date: 28-01-2019

GSTIN: 29AAKCM5491N1ZK

To.

The HOD

ECE Department

Alva's Institute of Engineering and Technology

Respected Sir,

We would like to inform that Ms. Mahalakshmi USN: 4AL15EC044 has attended internship in our calibration laboratory from 10-01-2019 to 28-01-2019. She has been initiated with basic concepts of calibration. She has witnessed calibration procedures for ammeters, voltmeters, clamp meters, multi meters and resistance meters. She has also witnessed calibration of our customer's equipment at the customer's site.

Yours Truly

(S. Devaki) MANAGÉR.



Inflow Information Integrity Pvt. Ltd.
Inflow House,
Bengaluru 560038.

Date : 115/19

#### CERTIFICATE

This is to certify that Ms. Manjula Puranikmath, a student of AIET (Electronics & Communication Engineering) has completed internship on Unified Communications & Collaboration at Inflow Information Integrity Bengaluru, from 16-JAN to 30-JAN 2019.

In Acknowledgment of her work & commitment in concluding this internship program this certificate is issued as a confirmation of her training at Bengaluru. She showed his brilliance, exertions and feats in being an unresolved student.



Our ref.

Sheet

BidP/HRL

29.01.2019

#### **CERTIFICATE**

This is to certify that **Ms. Monisha P** from Alva's Institute of Engineering And Technology, Mangalore, pursuing 7<sup>th</sup> SEM, Engineering has completed her Internship at our Bosch Bidadi Location.

Her internship was on the following study:

#### "Study on RFID"

Internship work period from 21.01.2019 to 29.01.2019.

During this period her performance and conduct was good.

Yours sincerely, For **Bosch** Limited,

(Suresh C) Manager (Human Resources) Altair Engineering India Pvt. Ltd.

Presti te Techpark, Marathalli Bengaluru

560103.

/ Altair

Date: 5th jeb 19

#### **CERTIFICATE**

This is to certify that Mr. Pavan K Rao, a student of Electronics & Communication Engineerin, Alva's Institution of Engineering & Technology has accomplished internship training on Satellite Communication at Bengaluru, from 16-JAN to 30-JAN 2019.

We found his sincere, meticulous and enthusiastic with result oriented. He worked well as a fragment of the team during the tenure. We take this prospect to thank his and wish all the best for future and awarded this certificate.

181909 Marzenan Dajural &

Altair Engineering India Pvt. Ltd.

Prestige Techpark, Marathalli Bengaluru

560103.



Date: 5th 106 19

#### **CERTIFICATE**

This is to certify that Mr. Pavan Kumar T J, a student of Electronics & Communication Engineerin, Alva's Institution of Engineering & Technology has accomplished internship training on Feko Antenna Design Hyperworks at Bengaluru, from 16-JAN to 30-JAN 2019.

We found his sincere, meticulous and enthusiastic with result oriented. He worked well as a fragment of the team during the tenure. We take this prospect to thank his and wish all the best for future and awarded this certificate.





INNOVATIVE TECHNOLOGY

ABL Accredited Calibration Lab as per ISO/IEC 17025 2017

# 33, 17th Cross, 12th Main, Malleshwaram Rengalurs - 560 055 Kamataka, India. Ph. +91 (080) 2344 9185 Fox +91-060-73341146. E-mail: mkssym@

Date: 28-01-2019

To.

The HOD

ECE Department

Alva's Institute of Engineering and Technology

Respected Sir,

We would like to inform that Ms. Pavithra G.K. USN: 4AL15EC056 has attended internship in our calibration laboratory from 10-01-2019 to 28-01-2019. She has been initiated with basic concepts of calibration. She has witnessed calibration procedures for ammeters, voltmeters, clamp meters, multi meters and resistance meters. She has also witnessed calibration of our customer's equipment at the customer's site.

Yours Truly



(S. Devaki)

Reg. No : AAB9565



#### INVENTERON TECHNOLOGIES AND BUSINESS SOLUTIONS LLP,

#15/2, 2nd Floor, Magadi Main Road, Vijayanagara, Bengaluru-560023. Ph: 080-23146545. Web:www.inventerontechnologies.com

### CERTIFICATE OF INTERNSHIP

This certificate is presented to

	Mr./Ms.	Pooja M	
		in recognition of his/her hard work and dedication in completing the	
NTERNSH	IP on	Design and Development of Embedded Systems	
	from	8th January 2019 to 28th January 2019	
	,		

During this period, his/her valuable contribution towards technical skills development has been found praise worthy. We, at Inventeron Technologies appreciate his/her work as an Intern and wish good luck for future plans.

For Inventeron Technologies And Business Solutions LLP

ARM'CORTEX'
Processor Technology

M 3







Managing Director

**Managing Director** 

Reg. No: AAB9565



INVENTERON TECHNOLOGIES AND BUSINESS SOLUTIONS LLP, #15/2, 2nd Floor, Magadi Main Road, Vijayanagara, Bengaluru-560023. Ph: 080-23146545. Web:www.inventerontechnologies.com

### CERTIFICATE OF INTERNSHIP

This certificate is presented to

N	Ar./Ms		Pooja (f	arame	shway	Hul	swan				
	in recognition of his/her hard work and dedication in completing the										
INTERNSHIP	on	Design	and	Develop	pment	of E	inhedded	Systems			
fi	rom			•		"	January	U		••••••	
							0		•••••		

During this period, his/her valuable contribution towards technical skills development has been found praise worthy. We, at Inventeron Technologies appreciate his/her work as an Intern and wish good luck for future plans.

For Inventeron Technologies And Business Solutions LLP

ARM'CORTEX'
Processor Technology

M 3







Managing Director

Managing Director

न्युक्लियर पॉवर कार्पोरेशन ऑफ इंडिया लिमिटेड Nuclear Power Corporation of India Limited (भारत सरकार का उधम)

(A Govt. of India Enterprise) कैगा बिजली उत्पादन केंद्र

KAIGA GENERATING STATION

ited गानकः चथप्रदर्शकः Plant Site, P.O.: KAIGA 581 40 उत्तर कन्नड जिला, कर्नाटक Uttara Kannada Dist., KARNATAKA दरभाष Phone: 08382

संयंत्र स्थल, डाक घर, कैगा 581 40

फैक्स Fax: 08382-264025

KGS 1&2 AND TOWNSHIP ARE तार Gram : KYGAPOWER

No.NPCIL/Kaiga/HRM/Trg./2(3)/2019/7.90

05.02.2019

### प्रमाणपत्रं CERTIFICATE

This is to certify that Ms. Poonam Madan Gunagi, B.E. (E&C)- VII Sem, student of Alva's Institute of Engineering & Technology, Mijar, Moodbidri has undergone vocational training at NPCIL Kaiga Site from 7th January, 2019 to 25th January, 2019 on the following:

- Optical Transducer Experiments
- Study on Computerised Operator Information System
- Study on Programmable Digital Comparator System
- Digital Recording System
- DC Power Supply Regulation Tests
- Visit to Simulator Control Room.

During the training period she was punctual, co-operative and disciplined.

We wish her all the success.

(Rashmiranjan Sahoo) Manager (HR)

रिमरंजन साह RASHMIRANJAN SAHOO प्रबंधक (मा.सं.) MANAGER (HR) कैगा बिजली उत्पादन केंद्र Kaiga Generating Station

पंजिकृत कार्यालय : 16 वा तल, सेंटर-1, विश्व व्यापार केंद्र, कफ परेड, मुंबई - 400 005. Regd. Office : 16th Floor, Centre-1, World Trade Centre, Cuffe Parade, MUMBAI - 400 005. Altair Engineering India Pvt. Ltd.

Prestige Techpark, Marathalli Bengaluru

560103.

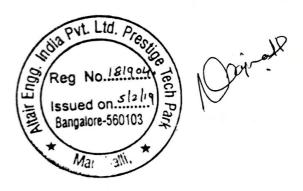


Date: 5# /eb 19

#### CERTIFICATE

This is to certify that Mr. Pradeep Kumar R, a student of Electronics & Communication Engineerin, Alva's Institution of Engineering & Technology has accomplished internship training on Feko Antenna Design Hyperworks at Bengaluru, from 16-JAN to 30-JAN 2019.

We found his sincere, meticulous and enthusiastic with result oriented. He worked well as a fragment of the team during the tenure. We take this prospect to thank his and wish all the best for future and awarded this certificate.



न्युक्लियर पॉवर कार्पोरेशन ऑफ इंडिया लिमिटेड

Nuclear Power Corporation of India Limited (भारत सरकार का उघम)

(A Govt. of India Enterprise)

कैगा विजली उत्पादन केंद्र

KAIGA GENERATING STATION

दूरभाष Phone : 08382 फैक्स Fax: 08382-264025

तार Gram : KYGAPOWER

उत्तर कन्नड जिला, कर्नाटक

Uttara Kannada Dist... KARNATAKA

संयंत्र स्थल, डाक घर, कैगा 581 400.

Plant Site, P.O.: KAIGA 581 400

No.NPCIL/Kaiga/HRM/Trg./2(3)/2019/7.37

05.02.2019

#### प्रमाणपत्र *CERTIFICATE*

This is to certify that Ms. Priya Suresh Naik, B.E. (E&C)- VII Sem, student of Alva's Institute of Engineering & Technology, Mijar, Moodhidri has undergone vocational training at NPCIL Kaiga Site from 7th January, 2019 to 25th January, 2019 on the following:

- Optical Transducer Experiments
- Study on Computerised Operator Information System
- Study on Programmable Digital Comparator System
- Digital Recording System
- DC Power Supply Regulation Tests
- Visit to Simulator Control Room.

During the training period she was punctual, co-operative and disciplined.

We wish her all the success.

(Rashmiranjan Sahoo) Manager (HR)

> रश्मिरंजन साह RASHMIRANJAN SAHOO प्रबंधक (मा.सं.) MANAGER (HR) कैगा बिजली उत्पादन केंद्र Kaiga Generating Station



Our ref.

Sheet

BidP/HRL

29.01.2019

#### **CERTIFICATE**

This is to certify that **Ms. Priyanka H G** from Alva's Institute of Engineering And Technology, Mangalore, pursuing 7<sup>th</sup> SEM, Engineering has completed her Internship at our Bosch Bidadi Location.

Her internship was on the following study:

"Study on RFID"

Internship work period from 21.01.2019 to 29.01.2019.

During this period her performance and conduct was good.

Yours sincerely, For **Bosch Limited**,

(Suresh C) Manager (Human Resources)



15th February 2019

#### CERTIFICATE OF TRAINING

This is to certify that Rahul Itnal has undergone internship from 7<sup>th</sup> January 2019 to 15<sup>th</sup> February 2019 at **Tessolve Semiconductor Pvt Ltd**, Electronic City, Bangalore.

During the internship period, he got trained on the following aspects:

- Introduction to IC Testing-Semiconductor IC Life cycle, IC domains and applications.
- Basics of ATE-Automatic Test Equipment, Test Engineering Flow
- Understanding VI source, Protocol study- I2C and SPI
- Datasheet parameters, Continuity Test, power short test, Leakage Test
- Functional Testing of digital ICs using LG Lite ATE.

Rahul Itnal has shown enthusiasm during the whole period of internship and has shown keen interest in acquiring knowledge, which will be helpful for his academic as well as future career prospects in Engineering.

We wish him success in future.

For Tessolve Semiconductor Pvt Ltd

Authorized Signatory



Our ref.

Sheet

BidP/HRL

01.02.2019

#### CERTIFICATE

This is to certify that **Ms. Rakshitha Rao** from Alva's Institute of Engineering And Technology, Mangalore, pursuing 7<sup>th</sup> SEM, Engineering has completed her Internship at our Bosch Bidadi Location.

Her internship was on the following study:

### "Study on Brief Review of Fanuc Robot Functioning & Purpose"

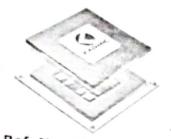
Internship work period from 08.01.2019 to 01.02.2019.

During this period her performance and conduct was good.

Yours sincerely, For **Bosch Limited**,

(Suresh C) Manager (Human Resources)





#### KARMIC DESIGN PRIVATE LIMITED

Ref. No.: KDPL/INTRN/CER/18-19/0066

Date: 17-May-2019

#### CERTIFICATE

This is to certify that Ms. Ranjitha, (USN 4AL15EC069) of Alva's Institute of Engineering and Technology, Moodbidri has undergone project training entitled "Introduction to Layouts in CMOS Technology" at KARMIC Design Private Limited, 4/505(C&C1), 80 Badagabettu, Rajeev Nagar, Alevoor Road, Manipal, Udupi district, Karnataka- 576 104 under our guidance from 08th January 2019 to 06th February 2019.

For KARMIC DESIGN PRIVATE LIMITED

Madan Bilagi Director





Our ref.

Sheet

BidP/HRL

01.02.2019

#### **CERTIFICATE**

This is to certify that **Ms. Rashmi Rao** from Alva's Institute of Engineering And Technology, Mangalore, pursuing 7<sup>th</sup> SEM, Engineering has completed her Internship at our Bosch Bidadi Location.

Her internship was on the following study:

### "Study on Brief Review of Fanuc Robot Functioning & Purpose"

Internship work period from 08.01.2019 to 01.02.2019.

During this period her performance and conduct was good.

Yours sincerely, For **Bosch Limited**,

(Suresh C) Manager (Human Resources) Altair Engineering India Pvt. Ltd.

Prestige Techpark, Marathalli Bengaluru

560103.



Date: 5th feb 19

#### CERTIFICATE

This is to certify that Mr. Rohan Gowda R, a student of Electronics & Communication Engineerin, Alva's Institution of Engineering & Technology has accomplished internship training on Satellite Communication at Bengaluru, from 16-JAN to 30-JAN 2019.

We found his sincere, meticulous and enthusiastic with result oriented. He worked well as a fragment of the team during the tenure. We take this prospect to thank his and wish all the best for future and awarded this certificate.





Inflow Information Integrity Pvt. Ltd. Inflow House, Bengaluru 560038.

Date: 11/2/19

#### CERTIFICATE

This is to certify that Mr. Rupesh N, a student of AIET (Electronics & Communication Engineering) has completed internship on Unified Communications & Collaboration & 4G Technologies at Inflow Information Integrity Bengaluru, from 16-JAN to 30-JAN 2019.

In Acknowledgment of her work & commitment in concluding this internship program this certificate is issued as a confirmation of her training at Bengaluru. She showed his brilliance, exertions and feats in being an unresolved student.

Inflow Information Integrity Pvt. Ltd.
Inflow House. Bangalore-560038.
Internship Reg. No. EC-19201

# MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

(A constituent unit of MAHE, Manipal)



20 Jan 2019.

### TO WHOMSOEVER IT MAY CONCERN

his is to certify that the following students from Dept. of Electronics and Communication Engg., Alva's institute of Engineering and Technology, Mangalore have carried out their interaship in the area of Advanced Control Systems in Lab-2, Instrumentation and Control Engineering, Manipal Institute of Sology, MAHE, Manipal from 11th January 2019 to 29th January 2019.

Ms.Shraddha (USN: 4AL15EC082)

Ms.Sakkubai Salapur (USN: 4AL15EC074)

During the internship period they worked on the Controller design for MIMO system based on GA optimization.

A1930

INSTRUMENTATION

. MIT

I wish them all success it heir future endeavors.

With regards

W. A. S.

(Dr.I.Thirunavukkarasu)

i. THIRUNAVUKKARASU
ciate Professor - Senior Scale
Dept. of I. C. E.
w.i.T., Manipal University
Manipal, Karnataka
www.itarasu.com

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INVENTERON TECHNOLOGIES AND BUSINESS SOLUTIONS LLP, #15/2, 2nd Floor, Magadi Main Road, Vijayanagara, Bengaluru-560023. Ph: 080-23146545. Web:www.inventerontechnologies.com

## **CERTIFICATE OF INTERNSHIP**

This certificate is presented to

	Mr./Ms.	Sa	ndhya	B.J		٠			
		in recognitio							
INTERNSH	IIP on	Design		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	U			7	<b>1</b> 5
	from	8th Jan	mary.	2019	to. 28	Th Jan	ualy	2019	•••••

During this period, his/her valuable contribution towards technical skills development has been found praise worthy. We, at Inventeron Technologies appreciate his/her work as an Intern and wish good luck for future plans.

For Inventeron Technologies And Business Solutions LLP

ARM'CORTEX'
Processor Technology

M3







Managing Director

Managing Director





Date: 17-May-2019

Ref. No.: KDPL/INTRN/CER/18-19/0069

#### CERTIFICATE

This is to certify that Ms. Shefali S Shetty, (USN 4AL15EC080) of Alva's Institute of Engineering and Technology, Moodbidri has undergone project training entitled "Introduction to Layouts in CMOS Technology" at KARMIC Design Private Limited, 4/505(C&C1), 80 Badagabettu, Rajeev Nagar, Alevoor Road, Manipal, Udupi District, Karnataka - 576 104 under our guidance from 08th January 2019 to 06th February 2019.

For KARMIC DESIGN PRIVATE LIMITED

Madan Bilagi Director









Date: 5th 1eb 19

### **CERTIFICATE**

This is to certify that Mr. Shivraj S Navade, a student of Electronics & Communication Engineerin, Alva's Institution of Engineering & Technology has accomplished internship training on WLAN Technologies at Bengaluru, from 16-JAN to 30-JAN 2019.



# MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

(A constituent unit of MAHE, Manipal)



29th Jan. 2019.

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that the following students from Dept. of Electronics and Communication Engg., Alva's Institute of Engineering and Technology, Mangalore have carried out their internship in the area of Advanced Control Systems in Lab-2, Instrumentation and Control Engineering, Manipal Institute of Innology, MAHE, Manipal from 11th January 2019 to 29th January 2019.

1. Ms.Shraddha (USN: 4AL15EC082)

2. Ms.Sakkubai Salapur (USN: 4AL15EC074)

During the internship period they worked on the Controller design for MIMO system based on GA optimization.

I wish them all success it heir future endeavors.

With regards

(Dr.I.Thirunavukkarasu)

r. I. THIRUNAVUKKARASU
isociate Professor - Senior Scale
Dept. of I. C. E.
M.I.T., Manipal University
Manipal, Karnataka
www.itarasu.com

MANIPAL-576104

MANIPAL-576104

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MANIPAL-576104

यू.आर.राव उपग्रह केंद्र अंतरिक्ष विभाग भारत सरकार विमानपुर पोस्ट बेंगलूरु - 560 017



U. R. Rao Satellite Centre Department of Space Government of India Vimanapura Post Bengaluru - 560 017

Certificate

DATE: 30-04-2019

HRDD

This is certify that	Ms. Shruthi I T	
ofAlvas	Institute of Engineering and Technology, Mijar	has undergone
Project training in	Control and Digital Electronics Group	at this Centre
during the period from 1	6/01/2019 to 30/04/2019.	
COURSE	: B.E (Electronics and Communication)	
PROJECT TITLE	: Design of Memory Interface for FRAM	

PROJECT MEMBERS

1. Vasanth Kumar M 2. Gowda Rachita B V 3. Sreecharan B R

PERFORMANCE : Excellent

(Prakash K S)

Head, HRD Division, URSC

1/1

(Rajendra Hulyal)
Group Head PPEG, URSC



Date: 5 th jeb 19

### **CERTIFICATE**

This is to certify that Ms. Sneha G N, a student of Electronics & Communication Engineerin, Alva's Institution of Engineering & Technology has accomplished internship training on Feko Antenna Design Hyperworks at Bengaluru, from 16-JAN to 30-JAN 2019.



यू.आर.राव उपग्रह केंद्र अंतरिक्ष विभाग भारत सरकार विमानपुर पोस्ट बेंगलूरु - 560 017

Head HRD Division, URSC

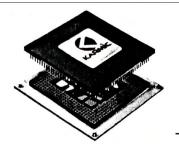


**U. R. Rao Satellite Centre Department of Space Government of India** Vimanapura Post Bengaluru - 560 017



DATE: 30-04-2019

This is certify that	Mr. Sreecharan B R	
ofAlvas	Institute of Engineering and Technology, Mijar	has undergone
Project training in	at this Centre	
during the period from	16/01/2019 to 30/04/2019.	
COURSE	: B.E (Electronics and Communication)	
PROJECT TITLE	: Design of Memory Interface for FRAM	
PROJECT MEMBERS	: 1. Vasanth Kumar M 2. Shruthi I T 3. Gowda Rachita B	1001
PERFORMANCE	: Excellent	HRDD PPEG
La Great	eugh.	BANGALOR
(Prakash K S) Head HRD Division U	(Rajendra Huly Group Head PPEG, U	al) SC



### KARMIC DESIGN PRIVATE LIMITED

Ref. No.: KDPL/INTRN/CER/18-19/0068

Date: 17-May-2019

#### **CERTIFICATE**

This is to certify that Ms. Srilaxmi Upadhyaya, (USN 4AL15EC086) of Alva's Institute of Engineering and Technology, Moodbidri has undergone project training entitled "Introduction to Layouts in CMOS Technology" at KARMIC Design Private Limited, 4/505(C&C1), 80 Badagabettu, Rajeev Nagar, Alevoor Road, Manipal, Udupi district, Karnataka - 576 104 under our guidance from 08<sup>th</sup> January 2019 to 06<sup>th</sup> February 2019.

For KARMIC DESIGN PRIVATE LIMITED

Madan Bilagi Director



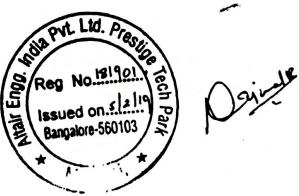


Altair

Date: 5th feb. 19

### **CERTIFICATE**

This is to certify that Mr. Sumanth N S, a student of Electronics & Communication Engineerin, Alva's Institution of Engineering & Technology has accomplished internship training on Feko Antenna Design Hyperworks at Bengaluru, from 16-JAN to 30-JAN 2019.





Date: 5th feb 19

#### **CERTIFICATE**

This is to certify that Mr. Suresh Naragund, a student of Electronics & Communication Engineerin, Alva's Institution of Engineering & Technology has accomplished internship training on Satellite Communication at Bengaluru, from 16-JAN to 30-JAN 2019.





## PROK DEVICES PRIVATE LIMITED

Shed No. B-80, 2nd & 3rd Floor, Rajajinagar Industrial Estate (KSSIDC) 4th Main Road, Rajajinagar 6th Block, Bengaluru-560 010. INDIA Tel: +91-80-41157700, 41480777

E-mail: enquiry@prokdvs.com / marketing@prokdvs.com http://www.prokdvs.com, www.prokdvs.in

# **Training Certificate**

We would like to inform that Ms.Sushmitha S USN.No:4AL15EC091 has successfully completed In-plant training in our esteemed organization from 13.1.2018 to 29.1.2019 for 17 days. During the In-plant training the above student, has learnt the manufacturing process viz Assembly, Soldering, Testing & Quality Control of Digital Protective Relays, Meters and Current Transformers.

We wish good luck and all the best in future endeavors

Regards,

For Prok Devices Pyt Ltd.

BENGALURU

(Director)

GST No: 29AAACP7896A1Z5

C.Satish Jois

An ISO 9001-2015 Company

CIN. No. U31101KA1991PTC012014





### KARMIC DESIGN PRIVATE LIMITED

Ref. No.: KDPL/INTRN/CER/18-19/0067

Date: 17-May-2019

#### **CERTIFICATE**

This is to certify that Ms. Teena Lobo, (USN 4AL15EC092) of Alva's Institute of Engineering and Technology, Moodbidri has undergone project training entitled "Introduction to Layouts in CMOS Technology" at KARMIC Design Private Limited, 4/505(C&C1), 80 Badagabettu, Rajeev Nagar, Alevoor Road, Manipal, Udupi district, Karnataka - 576 104 under our guidance from 08<sup>th</sup> January 2019 to 06<sup>th</sup> February 2019.

For KARMIC DESIGN PRIVATE LIMITED

Madan Bilagi Director



Regd. Office: 4/505 (C&C1), 80 Badagabettu, Rajeev Nagar, Alevoor Road, Manipal, Udupi – 576104, Karnataka, India CIN: U31200KA1999PTC024802

Regd. Office: 4/505 (C&C1), 80 Badagabettu, Rajeev Nagar, Alevoor Road, Manipal, Udupi – 576104, Karnataka, India CIN: U31200KA1999PTC024802



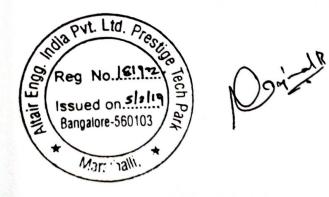




Date: 5th Jeb 19

### **CERTIFICATE**

This is to certify that Mr. Thirtha A L, a student of Electronics & Communication Engineerin, Alva's Institution of Engineering & Technology has accomplished internship training on Aerospace Technology at Bengaluru, from 16-JAN to 30-JAN 2019.







INVENTERON TECHNOLOGIES AND BUSINESS SOLUTIONS LLP, #15/2, 2nd Floor, Magadi Main Road, Vijayanagara, Bengaluru-560023. Ph: 080-23146545. Web:www.inventerontechnologies.com

# CERTIFICATE OF INTERNSHIP

This certificate is presented to

	Mr./Ms.		Van	ashree				
		in recognit	ion of his/l	her hard wo	rk and dedic	ation in complet	ing the	
INITEDNICIII	) au	Design	and	Develop	ment of	Embedded	Systems	
INTEKNSHIF	on	W .				eth January	•	
J	<i>rom</i>			<i>[</i>	••••••	V		

During this period, his/her valuable contribution towards technical skills development has been found praise worthy. We, at Inventeron Technologies appreciate his/her work as an Intern and wish good luck for future plans.

For Inventeron Technologies And Business Solutions LLP

Managing Director

ARM'CORTEX'
Processor Technology
M3







Managing Director

Reg. No : AAB9565



INVENTERON TECHNOLOGIES AND BUSINESS SOLUTIONS LLP. #15/2, 2nd Floor, Magadi Main Road, Vijayanagara, Bengaluru-560023. Ph: 080-23146545. Web:www.inventerontechnologies.com

### CERTIFICATE OF INTERNSHIP

This certificate is presented to

Mr./Ms.	Varsha . P				
	in recognition of his/her h				
INTERNSHIP on	Design and De	evelopment of	Embedded	Systems	
from	8th January			U	
<b>J</b>	V		7	•••••	

During this period, his/her valuable contribution towards technical skills development has been found praise worthy. We, at Inventeron Technologies appreciate his/her work as an Intern and wish good luck for future plans.

For Inventeron Technologies And Business Solutions LLP

Managing Director

**ARM**'CORTEX' **M3** 







**Managing Director** 



Date: 29.01.2019

### **CERTIFICATE**

### **TO WHOM SO EVER IT MAY CONCERN**

This is to certify that Ms. Varshitha P.J., 7<sup>th</sup> Semester B.E (Electronics & Communication Engineering), Alvas Institute of Engineering & Technology, Moodbidri has undertaken an Intrenship in partial fulfillment of her academic requirement at V-Care Electronics from 09.01.2019 to 29.01.2019.

Her behavior & conduct during the above training period was good.

We wish her all the best for future endeavors.

For V-CARE PLANCE TRONICS,

V MARIESH HOLLA

(Engineering Manager)

यू.आर.राव उपग्रह केंद्र अंतरिक्ष विभाग भारत सरकार विमानपुर पोस्ट बेंगलूरु - 560 017



U. R. Rao Satellite Centre
Department of Space
Government of India
Vimanapura Post
Bengaluru - 560 017

Certificate

DATE: 30-04-2019

HRDD PPEG

This is certify that	Mr. Vasanth Kumar M	
of Alvas	Institute of Engineering and Technology, Mijar	has undergone
Project training in	Control and Digital Electronics Group	at this Centre
during the period from $1$	6/01/2019 to 30/04/2019.	
CO. T. C.	DECEL transition and Communication)	

COURSE : B.E (Electronics and Communication)

PROJECT TITLE : Design of Memory Interface for FRAM

PROJECT MEMBERS : 1. Shruthi I T 2. Gowda Rachita B V 3. Sreecharan B R

PERFORMANCE : Excellent

(Prakash K S) Head, HRD Division, URSC em

(Rajendra Hulyal)
Group Head PPEG, URSC



# PROK DEVICES PRIVATE LIMITED

Shed No. B-80, 2nd & 3rd Floor, Rajajinagar Industrial Estate (KSSIDC) 4th Main Road, Rajajinagar 6th Block, Bengaluru-560 010. INDIA Tel: +91-80-41157700, 41480777



E-mail: enquiry@prokdvs.com / marketing@prokdvs.com http://www.prokdvs.com, www.prokdvs.in

# **Training Certificate**

We would like to inform that Mr.Vinay B USN.No:4AL15EC101 has successfully completed In-plant training in our esteemed organization from 7.1.2018 to 29.1.2019 for 23 days. During the In-plant training the above student, has learnt the manufacturing process viz Assembly, Soldering, Testing & Quality Control of Digital Protective Relays, Meters and Current Transformers.

We wish good luck and all the best in future endeavors

Regards,

For Prok Devices By

BENGALURU

C.Satish Jois

GST No : 29AAACP7896A1Z5

(Director)

An ISO 9001-2015 Company

CIN. No. U31101KA1991PTC012014





### PROK DEVICES PRIVATE LIMITED



Shed No. B-80, 2nd & 3rd Floor, Rajajinagar Industrial Estate (KSSIDC) 4th Main Road, Rajajinagar 6th Block, Bengaluru-560 010. INDIA Tel: +91-80-41157700, 41480777

E-mail: enquiry@prokdvs.com / marketing@prokdvs.com http://www.prokdvs.com, www.prokdvs.in

# <u>Training Certificate</u>

We would like to inform that Ms.Vinaya Nagesh Naik USN.No:4AL15EC102 has successfully completed In-plant training in our esteemed organization from 13.1.2018 to 29.1.2019 for 17 days. During the In-plant training the above student, has learnt the manufacturing process viz Assembly, Soldering, Testing & Quality Control of Digital Protective Relays, Meters and Current Transformers.

We wish good luck and all the best in future endeavors

Regards,

For Prok Devices Pyth

BENGALURU

(Director)

C.Satish Jois

GST No: 29AAACP7896A1Z5

An ISO 9001-2015 Company

CIN. No. U31101KA1991PTC012014





Date: 5th feb 19

#### CERTIFICATE

This is to certify that Mr. Yeshwanth M, a student of Electronics & Communication Engineerin, Alva's Institution of Engineering & Technology has accomplished internship training on WLAN Technologies at Bengaluru, from 16-JAN to 30-JAN 2019.

